



Automated Personnel Tracking (APT)

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Background

- USCENTCOM request
 - Solution to long-term problem of customs and immigrations processing
 - BS 99/00 took 5-7 hours to process
 - Common Access Card fielding viewed as potential technical solution
- Joint Logistics Warfighting Initiative (JLWI)
 - Experiments to improve business processes
 - Apply technology where appropriate
 - Develop capabilities; not systems
- Design
 - Web-based, Restricted Access
 - Deployment and Redeployment
 - Joint Reception, Staging, Onward Movement, and Integration
- Development
 - Began in February 2001
 - Built upon Oahu Project Smart Card applications
 - Resourced by JLWI and Joint Staff J4
 - Supplemented by Focused Logistics
 - Supported by DoN Smart Card Office
 - Interface with Linear Bar Code
 - Interface with Integrated Circuit Chip
 - Manual entry via computer keyboard
 - Enabled by DMDC
- Output
 - Government-owned software
 - Commercial Hardware
 - Computers and Printers
 - Peripherals
 - Communications
 - Capable of integration within AISs

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Automatic Personnel Tracking (APT) Information Exchanges

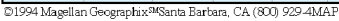
The diagram illustrates the information and physical flows within the Automatic Personnel Tracking (APT) system. At the center is the **Theater Personnel Database**, which contains **PERSONNEL REPORT**, **Immigration Documents**, **Ad hoc Reports and Queries**, and **XX JTF**. The database is connected to several key entities:

- Airport or Seaport Departure Expeditionary Embarkation**: Provides **GATES** (yellow oval) and **Plane Manifest** (blue rectangle) data to the database. It also receives **Forecast** (blue rectangle) data from the database.
- Airport or Seaport Arrival Expeditionary Debarcation**: Provides **APT** (yellow oval) and **Arrival** (blue rectangle) data to the database. It also receives **Bus Manifest** (blue rectangle) data from the database.
- Home Station**: Provides **APT** (yellow oval) and **Bus Manifest** (blue rectangle) data to the database. It also receives **Forecast** (blue rectangle) data from the database.
- Tactical Assembly Area**: Provides **Arrival** (blue rectangle) data to the database. It also receives **XX JTF** (white rectangle) data from the database.

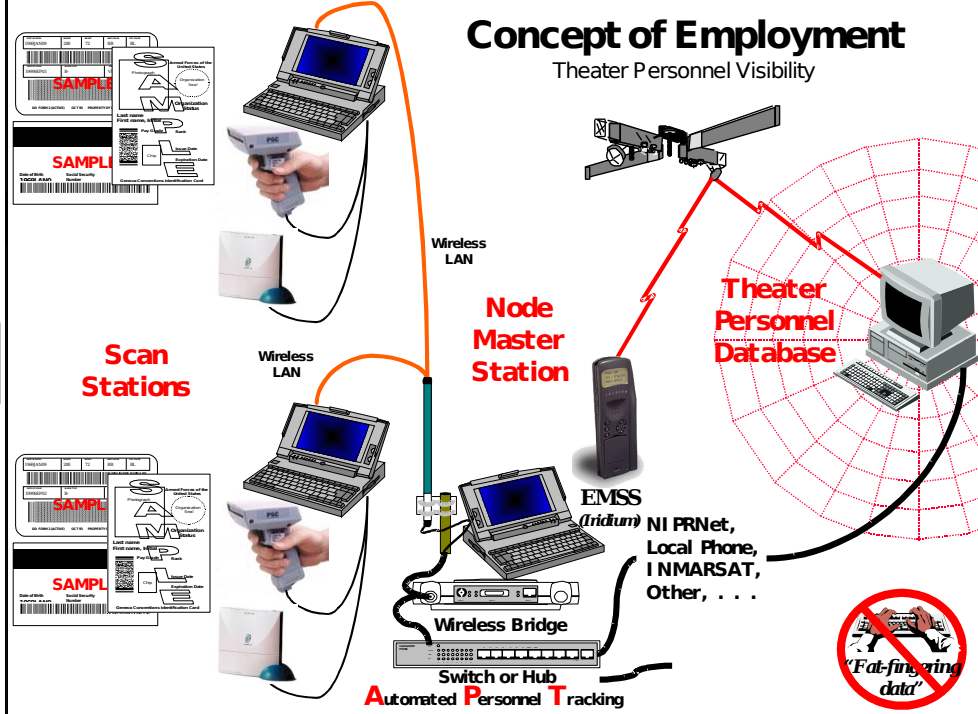
Information Flow (purple arrows) and Physical Flow (red arrows) are indicated. The diagram also includes images of a laptop, a handheld scanner, and a mobile phone, representing the physical infrastructure used in the system.

APT
GATES

Automated Personnel Tracking
Global Air Transportation
Execution System



Theater Personnel Visibility



Node Configuration

Scale: 0 to 150 Kilometers / 0 to 150 Miles

Legend:

- Satellite (Yellow circle)
- Land-based (Blue circle)
- Mobile (Red circle)

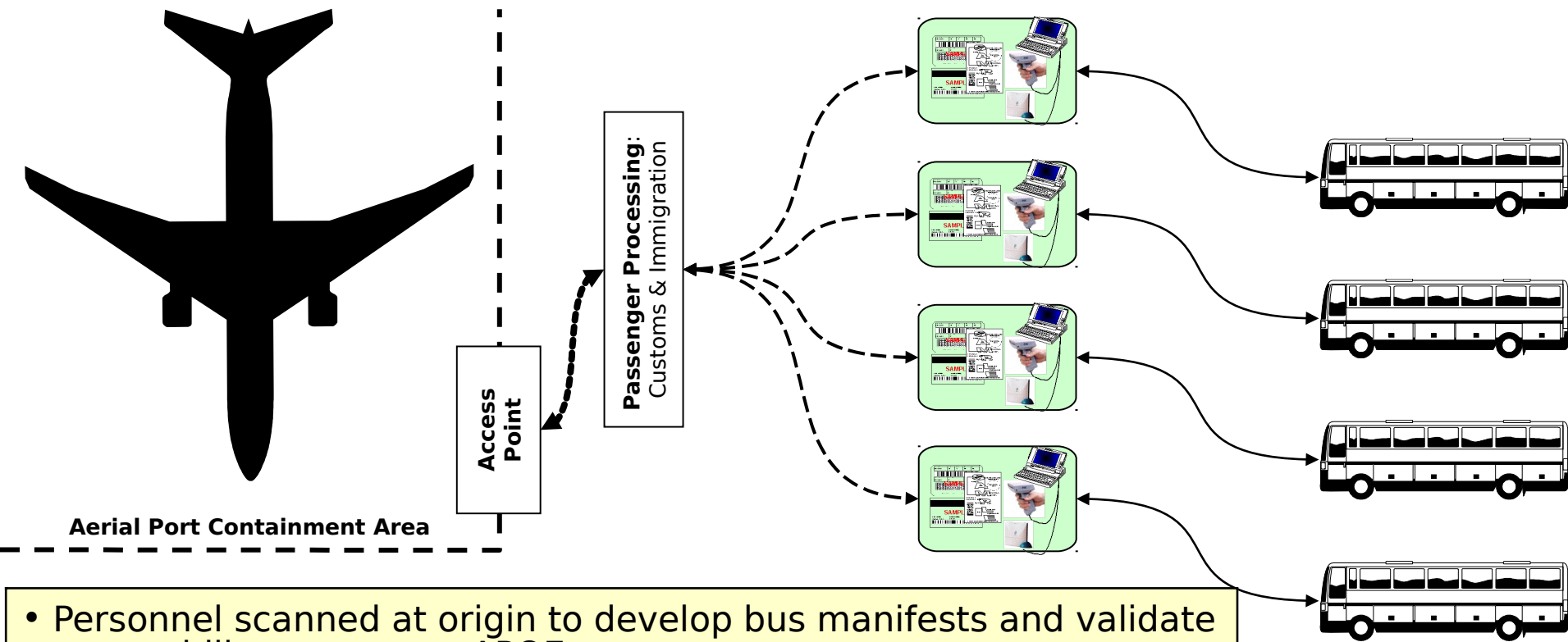
Map Labels:

- Alexandria
- Agari (MMC remote)
- Borg Al Arab
- Joint Reception Center Mubarak Military City
- Al Manşurah
- Az Zaqaiziq
- Glanactis
- Cairo West
- Cairo Marriott
- Beni Suef
- Suez Canal
- Suez
- Ra's Sudr
- Al Fayyūm
- Bani Suway
- Port Said
- Damietta
- Kafr ash Shaykh
- Tanta
- Shibin al Kawthar
- Al Jizah
- Birkat Qarun
- Al Fayyūm
- Bani Suway



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Origin and APOE/APOD Scanning Process



- Personnel scanned at origin to develop bus manifests and validate accountability enroute to APOE
- Files transmitted to APT server to begin individual tracking history
- Personnel scanned at APOE to validate passengers, develop plane manifest, and export passenger data to GATES/LOGAIS
- Personnel scanned at APOD to validate arrival and develop bus manifests
- Files transmitted to APT server to update tracking history and web viewing (if user has logon/password assigned)

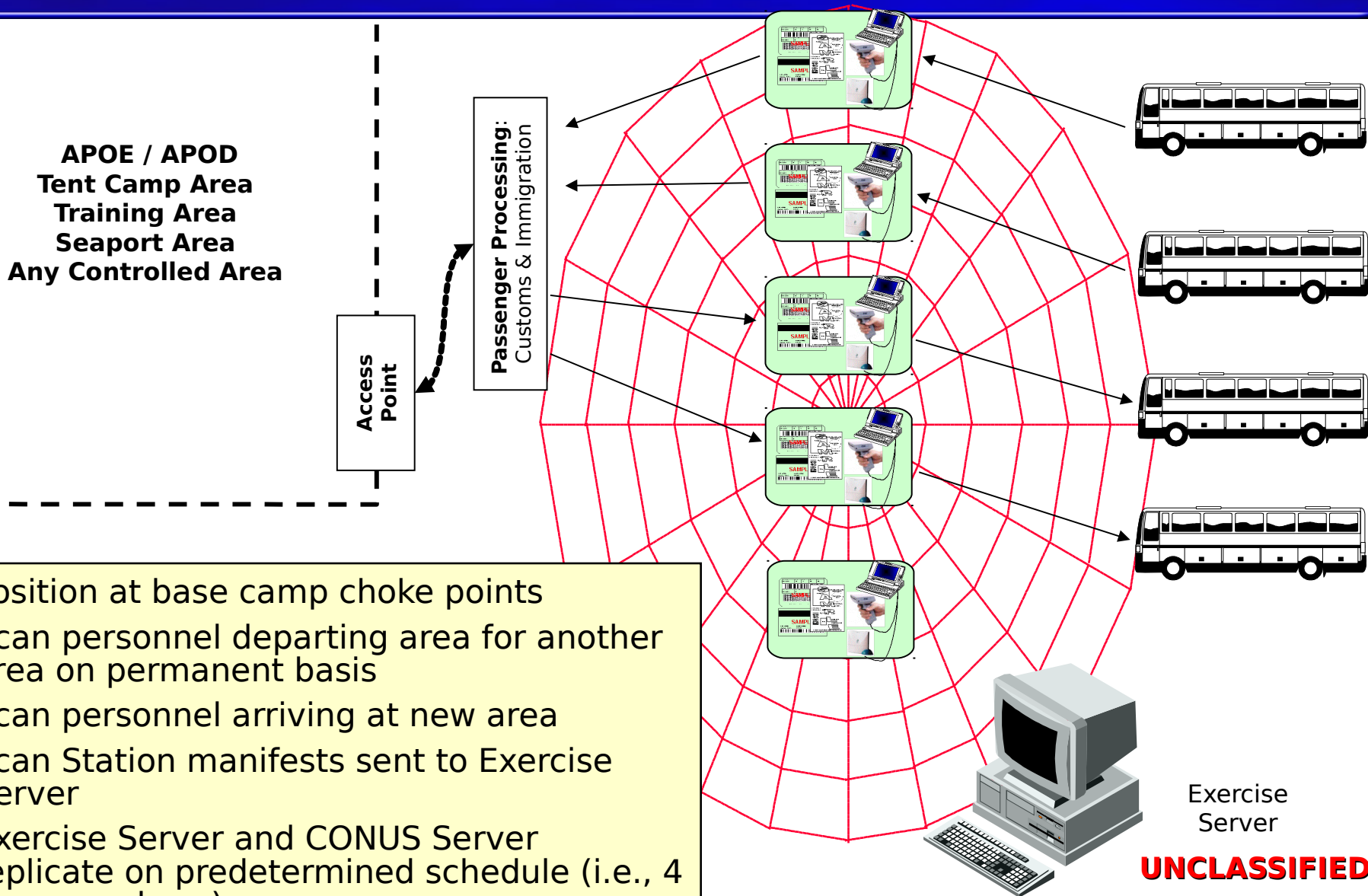
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Exercise Force Protection Personnel Accountability

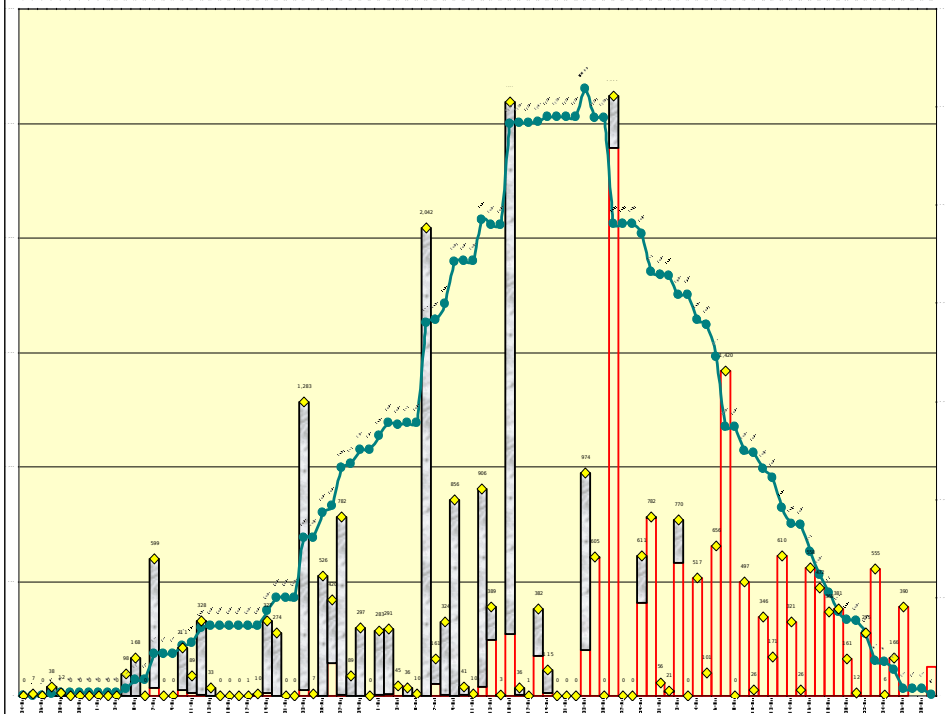


- Position at base camp choke points
- Scan personnel departing area for another area on permanent basis
- Scan personnel arriving at new area
- Scan Station manifests sent to Exercise Server
- Exercise Server and CONUS Server replicate on predetermined schedule (i.e., 4 times per hour)

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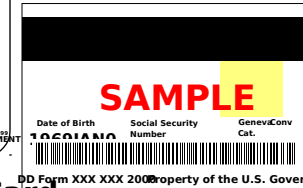
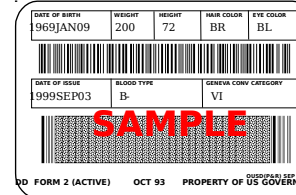
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Exercise Results



<u>Location</u> <u>process</u>	<u>In-process</u>	<u>Out-</u>
Gianaclis	9,181	7,799
Cairo IAP / Marriott	1,004	1,011
Cairo West	2,292	3,665
MEU	2,184	2,184
Agami / Dukahyla	60	62
Beni Suef	<u>372</u>	<u>372</u>

Data Entry Media



Armed Forces ID Card

Common Access Card

Smart Card



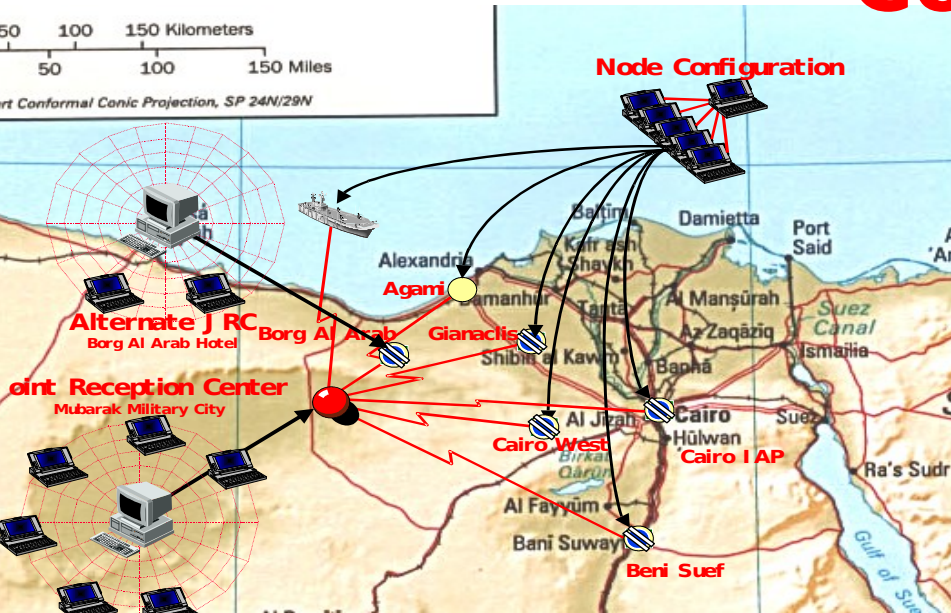
Service Breakdown

US Army	4,891	US Air Force	1,245
US Army Reserve	2,193	Air National Guard	217
Army National Guard	967	Air Force Reserve	31
US Marine Corps (MEU 2,184)	4,087	Civilians	147
Marine Corps Reserve	112	DoD	13
US Navy	646	US Coast Guard	12
US Navy Reserve	530	Other (US Customs)	2



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Exercise Capability Comparison

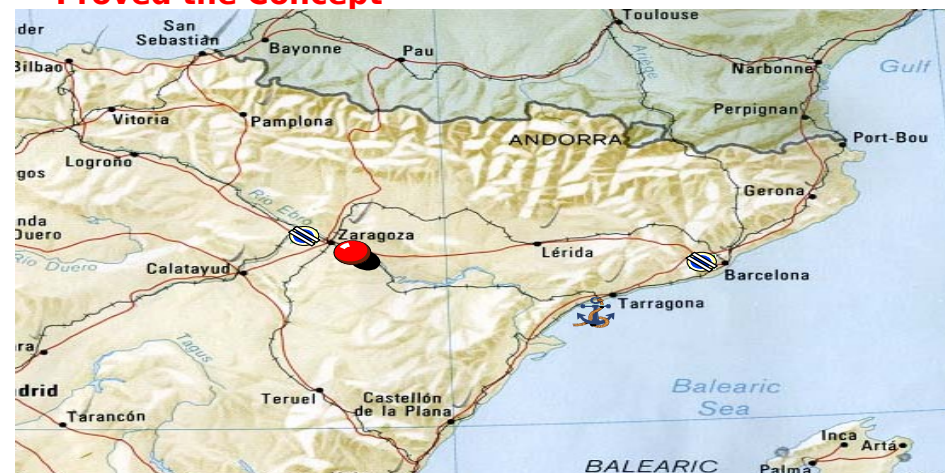


Exercise Bright Star 2001/2002

- ✓ Deployment and Redeployment of 15,093 personnel from all Services, Active and Reserve Components, Coast Guard, civilians, and others
- ✓ Read Linear Bar Codes and Integrated Circuit Chips on the Armed Forces Identification Card and Common Access Card; supported manual entry of data
- ✓ Employed Wireless LAN for close-in communications and multiple pathways for long-haul
- ✓ Aggregated JTF-specific data for reports and queries on multiple, synchronized servers and archived data
- ✓ Highlighted a variety of additional challenges
- ✓ Reduced processing time from seven to two hours to the complete satisfaction of Egyptian immigration officials
- ✓ Conducted deployed AFID card issuance via DMDC support
- ✓ **Proved the Concept**

Exercise Dynamic Mix 2002

- ✓ Included deployment and redeployment of over 4,000 personnel from Navy and Marine Corps, Active and Reserve Components, and civilians
- ✓ Read Linear Bar Codes and Integrated Circuit Chips on the Armed Forces Identification Card and Common Access Card; supported manual entry of data
- ✓ Employed secure Iridium Satellite communications via Iridium terminal
- ✓ Server problems at Camp Lejeune prohibited sending data back to server; data stored on local deployed server at exercise location
- ✓ Provided personnel location/statistic (JPERSTAT) type reports at the unclassified level



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User Info

Agent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.0; T312461; SRAINT)

Host: 163.252.21.54

IP: 163.252.21.54

Please Authenticate

Login ID

Password

OK

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GMT TIME: 5/9/2002 9:07:21 PM

● TOTAL PERSONNEL PROCESSED : 15093

● PERSONNEL DEPARTED THEATER : 15093

● PERSONNEL REMAINING IN THEATER : 0

	USA	USAF	USMC	USN	DOD, CIV/OTHER
TOTAL OFFICERS	0	0	0	0	0
TOTAL ENLISTED	0	0	0	0	0
TOTAL NON-US MILITARY	0	0	0	0	0

REPORTS



[Personnel Report](#)



[Transit Report](#)

Search by Date

PERSONNEL REPORT

(AS OF : 5/9/2002 FROM 12:01 AM TO 9:12:57 PM)

Total in Theater: 0

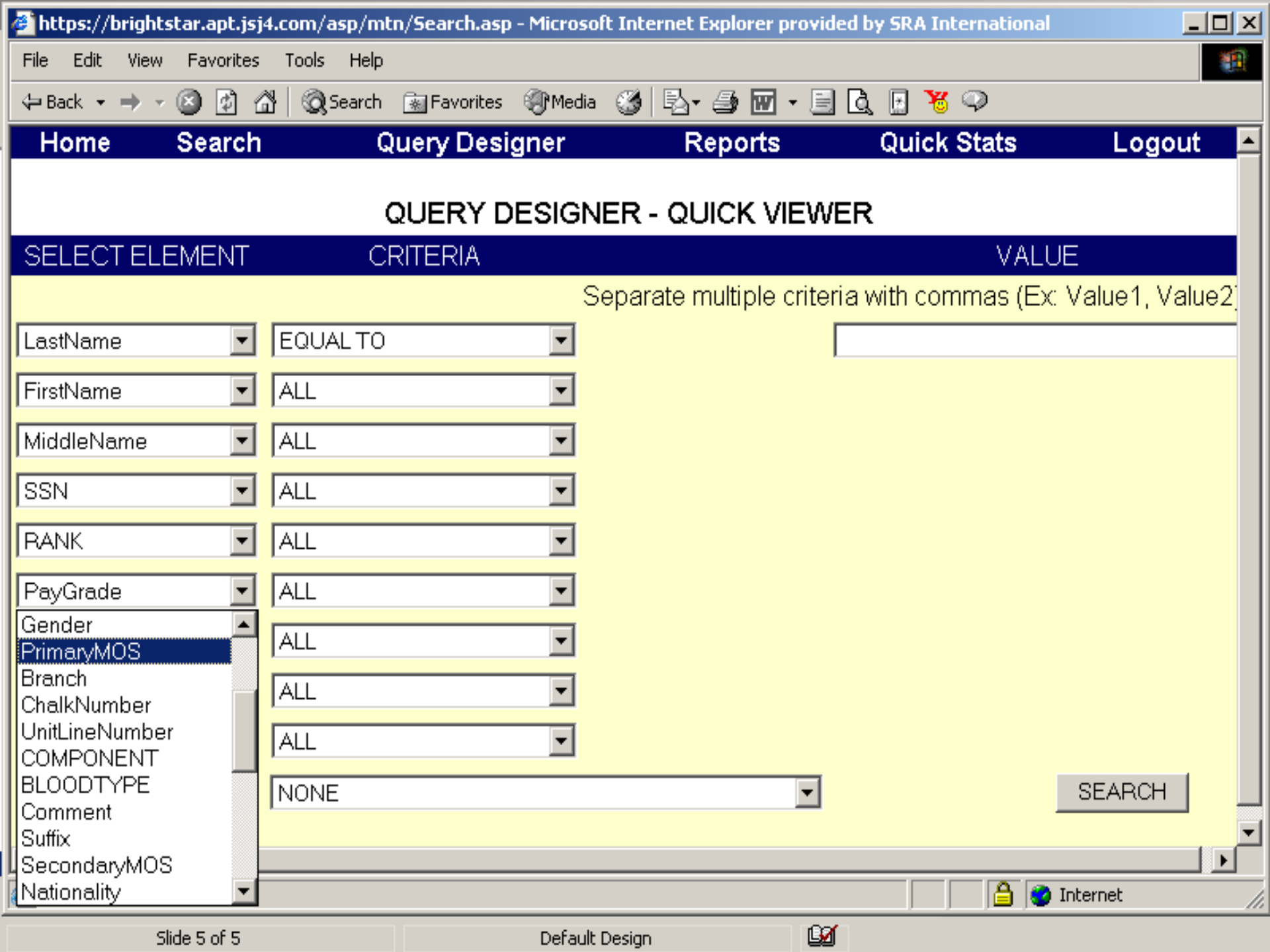
Total Forces

Command	USA	USAF	USN	USMC	CIV/OTHER	CURRENT LOCATION TOTAL	TOTAL PREV 24 HOURS
CURRENT TOTAL	0	0	0	0	0	0	
PREV PERIOD TOTAL	0	0	0	0	0		0

Personnel Breakout

US MILITARY ACTIVE AND CIVILIAN PERSONNEL (MALE AND FEMALE)

Command	USA	USAF	USN	USMC	CIV/OTHER	TOTAL
TOTAL	0	0	0	0	0	0
PREV PERIOD TOTAL						

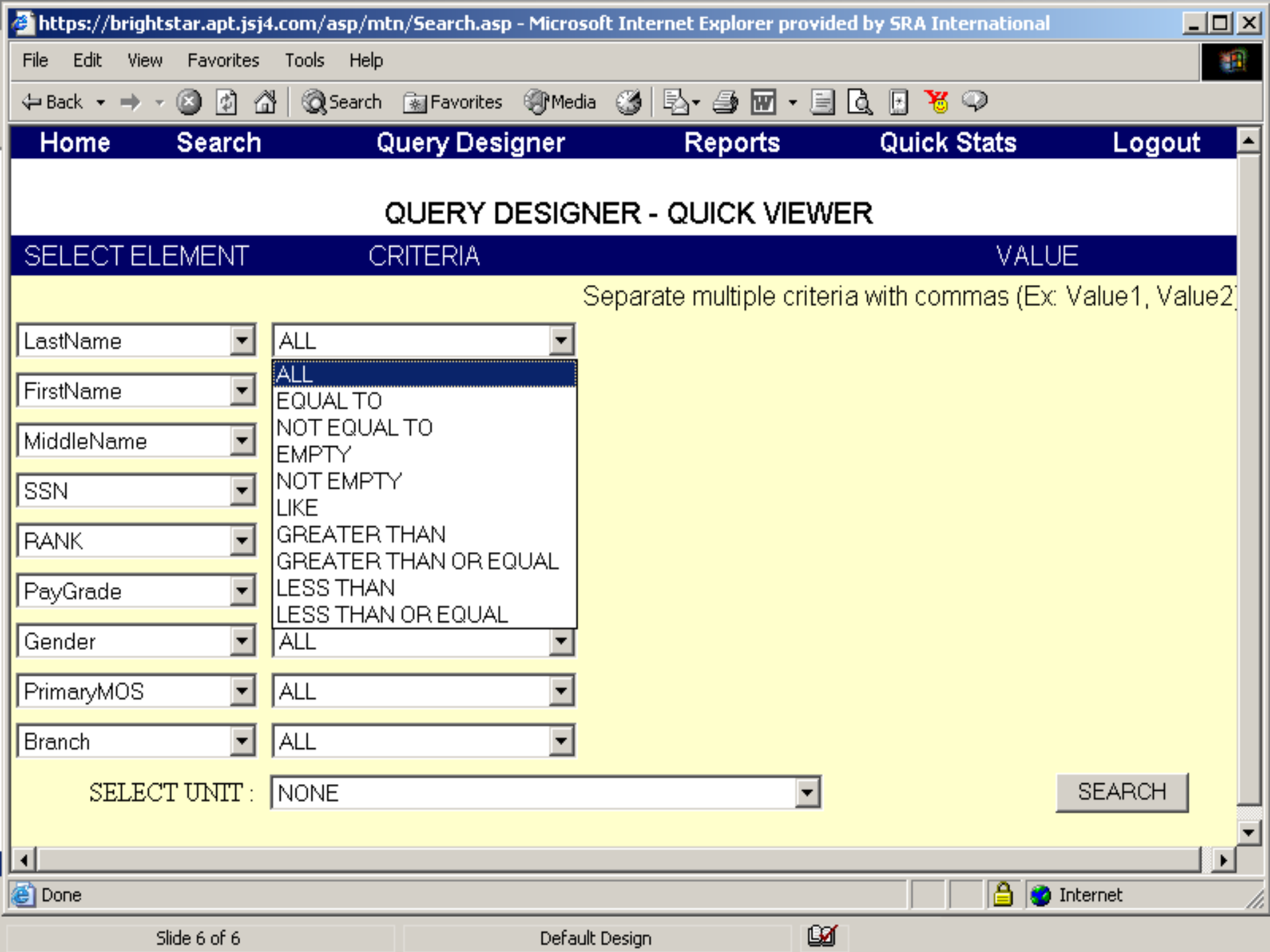


QUERY DESIGNER - QUICK VIEWER

SELECT ELEMENT CRITERIA VALUE

Separate multiple criteria with commas (Ex: Value1, Value2)

Form with dropdown menus for SELECT ELEMENT (e.g., LastName, FirstName, MiddleName, SSN, RANK, PayGrade, Gender, PrimaryMOS, Branch, ChalkNumber, UnitLineNumber, COMPONENT, BLOODTYPE, Comment, Suffix, SecondaryMOS, Nationality), CRITERIA (e.g., EQUAL TO, ALL, NONE), and VALUE. Includes a SEARCH button.



QUERY DESIGNER - QUICK VIEWER

SELECT ELEMENT	CRITERIA	VALUE
----------------	----------	-------

Separate multiple criteria with commas (Ex: Value1, Value2)

LastName	ALL
FirstName	ALL
MiddleName	ALL
SSN	ALL
RANK	ALL
PayGrade	ALL
Gender	ALL
PrimaryMOS	ALL
Branch	ALL

SELECT UNIT : NONE

SEARCH

SEARCH FORMS



Search Forms



Custom Search

Current Mission Search

Archive Mission Search

Mission



SELECT SEARCH CRITERIA !

Results P

0365

BMXA815BS302

BMXA824BS307

BMXA825BS309

BMXA827BS313

BMXA828BS309

BMXA832BS312

BMXA840BS318

BMXA841BS319

BMXA844BS316

BMXA846BS320

BMXA847BS321

☐ ALL

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Enter Search Criteria

Last Name: ☐ Male ☐ Female ☒ Both

First Name: ☐ Incoming ☐ Outgoing ☒ Both

AFSC / NEC / MOS: ☐ In-Theater ☐ Out-Theater ☒ Both

Location / POE:

Branch:

Component:

Destination:

UIC:

Pay Grade:

Blood Type:

Sort Result By:

Results Per Page: ☒ 50 ☐ 100 ☐ ALL

Search

Reset

Results

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Tracking Query Result

Location: All

Destination: All

UIC: All

Total Found : 1

LAST	FIRST	SEX	PAYGRADE	BRANCH	UIC	ULN	COMPONENT	LOCATION / POE	DESTINATION	IN	OUT
<u>MOORES</u>	TERRY MICHAEL	M	CIV	CIV	////	TBHCR01	JTF HQ	USA	USA	11/18/2001 12:25:58 PM	

RECORDS REMAIN: 0

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Detail Info



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GENERAL INFORMATION

LAST NAME :	MOORES
FIRST NAME :	TERRY MICHAEL
MIDDLE INITIAL :	
GENDER :	M
SERVICE :	CIV
PRIMARY MOS :	ZZZZZ
UNIT :	ZZZZZ
ULN :	TBHCR01
PAY GRADE :	CIV
COMMENTS :	





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Server Tracking History

tracking history

Capability

LOCATION	DESTINATION	DATE	TIME	LOCATION	ULN	COMMENT
WASHINGTON DC	MARRIOTT	8/24/2001	10:24:15	Out	TBHCR01	
MARRIOTT	MARRIOTT	8/24/2001	11:26:15	In	TBHCR01	
MARRIOTT	HILTON	9/7/2001	7:29:46 PM	In	TBHCR01	RELOCATING FROM MARRIOTT TO HILTON
HILTON	HILTON	9/12/2001	11:55:40	In	TBHCR01	
HILTON	HILTON	9/12/2001	4:40:36	In	TBHCR01	
HILTON	GIANACLIS	9/30/2001	6:42:07	In	TBHCR01	
GIANACLIS	CAIRO WEST	9/30/2001	9:43:08	In	TBHCR01	
CAIRO WEST	CAIRO WEST	9/30/2001	3:44:08	In	TBHCR01	
CAIRO WEST	GIANACLIS	10/2/2001	9:45:10	In	TBHCR01	
GIANACLIS	GIANACLIS	10/2/2001	10:46:03	In	TBHCR01	
GIANACLIS	HILTON	10/9/2001	12:24:58	In	TBHCR01	
HILTON	HILTON	10/9/2001	2:26:47	In	TBHCR01	
HILTON	26 MEU	10/10/2001	8:37:21	Out	TBHCR01	
26 MEU	26 MEU	10/10/2001	11:30:24	In	TBHCR01	
26 MEU	MMC	10/11/2001	11:42:15	Out	TBHCR01	
MMC	HILTON	10/11/2001	3:39:06	Out	TBHCR01	
HILTON	HILTON	10/11/2001	4:00:05	In	TBHCR01	
HILTON	GIANACLIS	10/12/2001	8:31:50	Out	TBHCR01	
GIANACLIS	GIANACLIS	10/12/2001	10:32:43	In	TBHCR01	
	USA	10/12/2001	7:36:25	Out	TBHCR01	
USA	GIANACLIS	10/24/2001	10:21:05	Out	TBHCR01	WILL RTRN 24 OCT
MARRIOTT	GIANACLIS	10/25/2001	10:03:34	In	TBHCR01	
GIANACLIS	GIANACLIS	10/26/2001	3:23:04	In	TBHCR01	
GIANACLIS	HILTON	10/27/2001	12:14:00	Out	TBHCR01	
HILTON	HILTON	10/27/2001	2:21:02	In	TBHCR01	
HILTON	GIANACLIS	10/29/2001	9:19:55	Out	TBHCR01	
GIANACLIS	GIANACLIS	10/29/2001	10:20:56	In	TBHCR01	
MARRIOTT	USA	11/16/2001	9:43:22	Out	TBHCR01	
GIANACLIS	MARRIOTT	11/17/2001	12:49:30	Out	TBHCR01	
MARRIOTT	MARRIOTT	11/17/2001	3:17:30	In	TBHCR01	
MARRIOTT	USA	11/18/2001	3:06:13	Out	TBHCR01	
USA	USA	11/18/2001	12:25:58	In	TBHCR01	



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Questions?

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***Automated
Personnel
Tracking***





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- Backup Slides

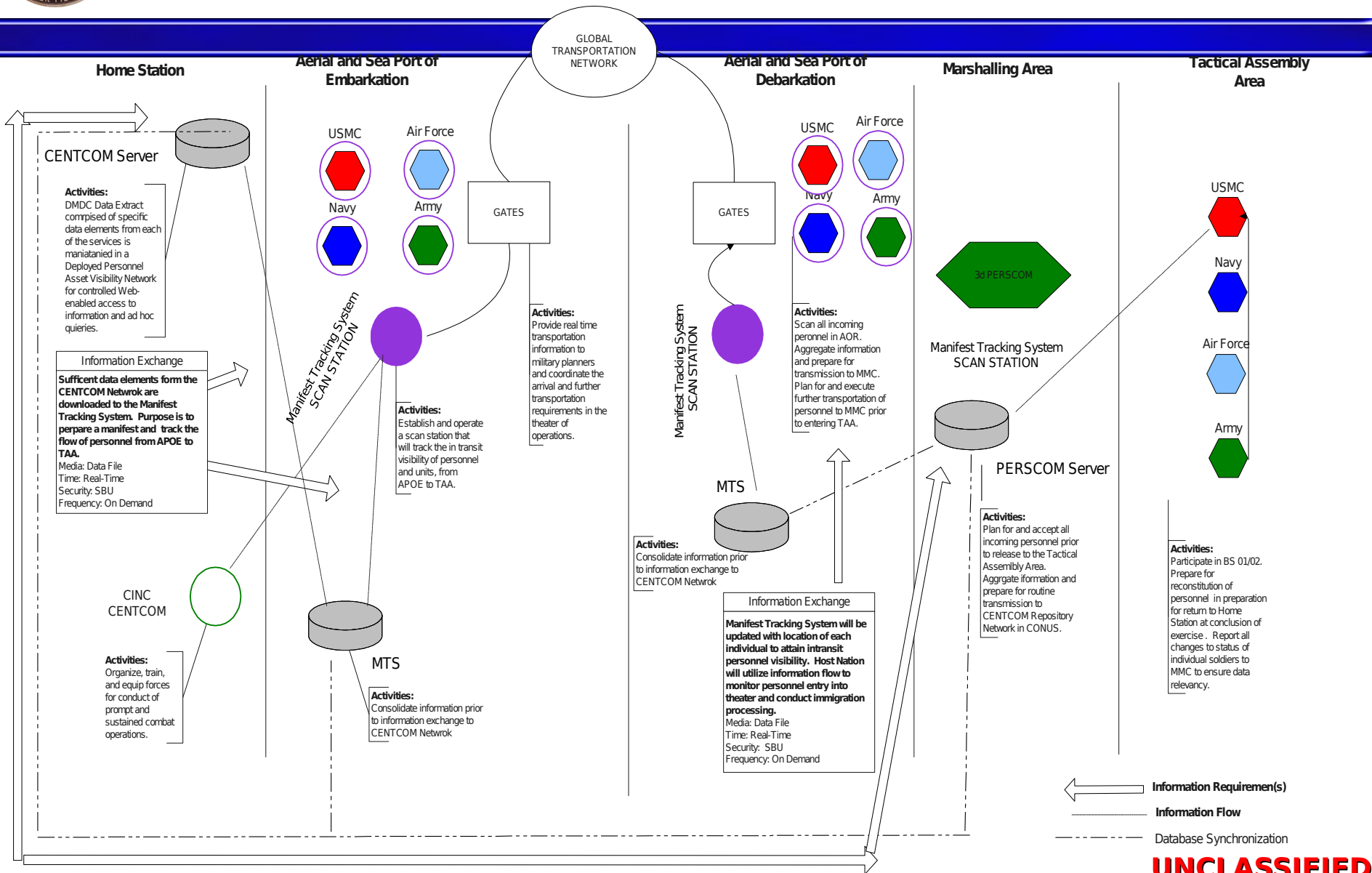
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D Joint Reception Staging Onward Movement & Integration Personnel Tracking Operational Node Connectivity Description (OV-2)



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Joint Reception Staging Onward Movement & Integration Personnel Tracking System Interface Description (SV-1)

